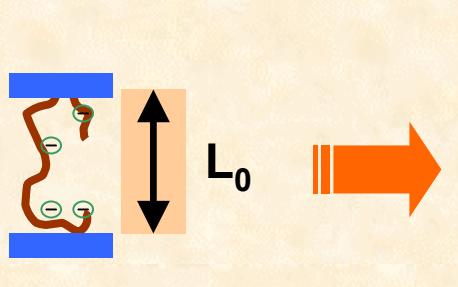




MOLECULAR CONFORMATIONAL CHANGES IN CARTILAGE USING NMR SPECTROSCOPY

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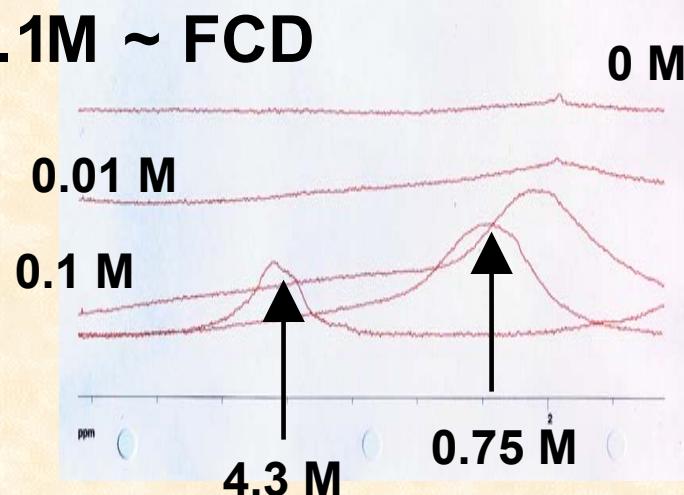
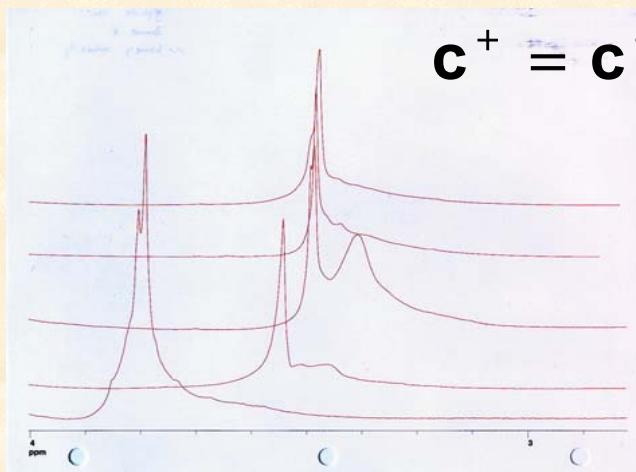
Glycine of collagen

Osmotic loading in NaCl solution or "free swelling" experiment.

$$\Pi_{ps} = -P_c \quad \Pi_{ps} \sim f(FCD, c_{salt}) \sim f(-, +)$$

$$\varepsilon = \Delta L / L_0 = (L' - L_0) / L_0 \sim \Delta \delta$$

N-Ac Methyl of CS



$\Delta\delta$ =peak shift due to charge screening resulting in reduction of R_g and expulsion of H_2O .